• CONDITION FORMULA 1 : THE SIDE OF USEFUL LIFE

$$\min\{la^{-i}, lr^{-i}\} \le la^{-i} - \min\{la^{-i}, lr^{-i}\}$$

WHERE l^i IS LIFE TIME OF PRODUCT, l^j IS LIFE TIME OF PARTS
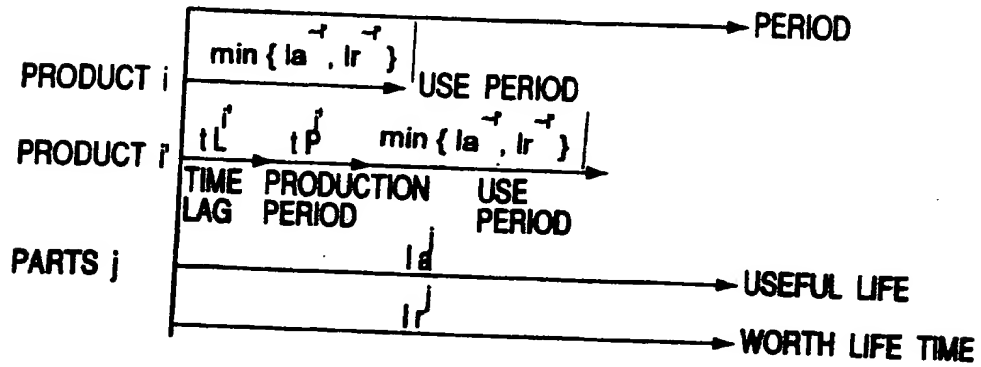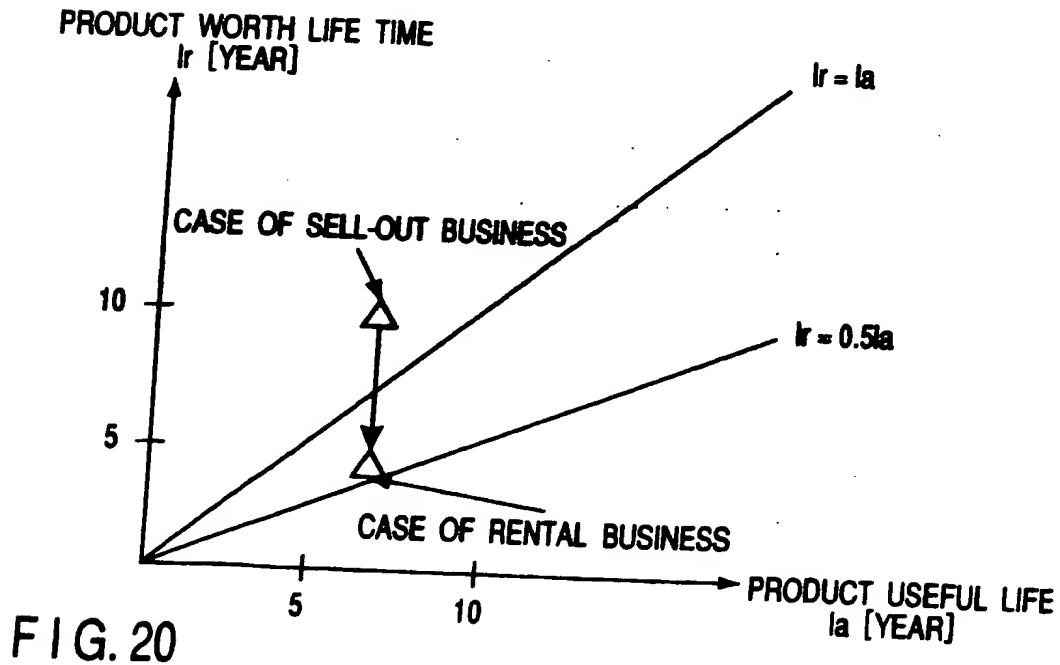

FIG. 19

FIG. 20

● CONDITION FORMULA 2 : THE SIDE OF WORTH LIFE TIME

$$tL^{i''} + tP^{i''} + \min\{la^{-j}, lr^{-j}\} \leq lr^{-j}$$

PRODUCT i

min $\{la^{-j}, lr^{-j}\}$ → USE PERIOD

PRODUCT i'

$tL^{i'}$ $tP^{i'}$ min $\{la^{-j}, lr^{-j}\}$

TIME LAG   PRODUCTION PERIOD   USE PERIOD

→ PERIOD

PARTS j
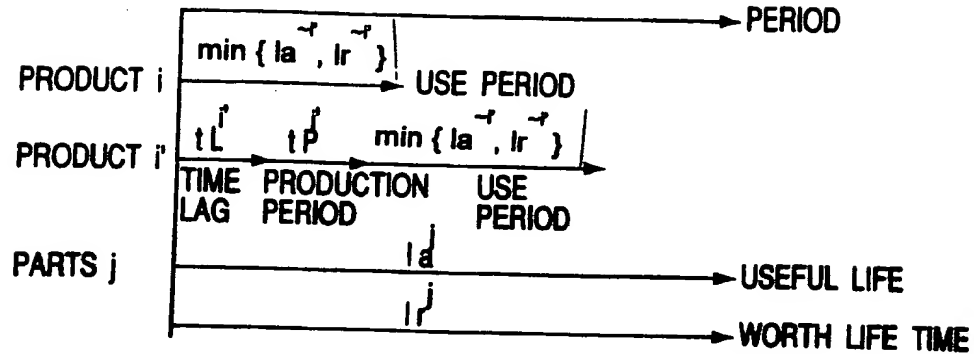
la^{j} → USEFUL LIFE

lr^{j} → WORTH LIFE TIME

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● CONDITION FORMULA 3 : THE SIDE OF RECOVERY QUANTITY

$$\min\{la^{-j}, lr^{-j}\} < tL^{i''} + \alpha tP^{i''}$$

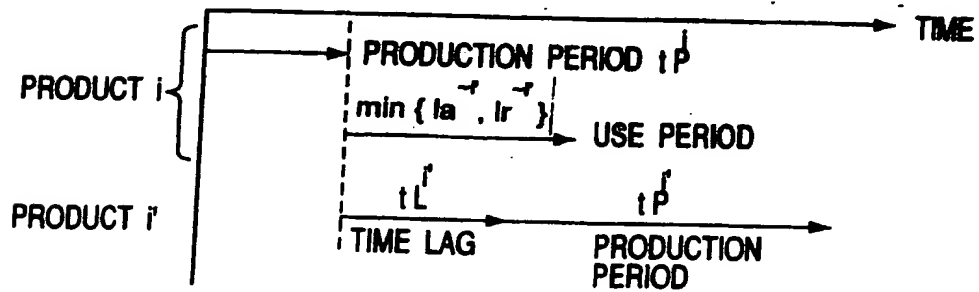WHERE $0 \leq \alpha \leq 1$ α : PERIOD FACTOR

PRODUCT i

PRODUCTION PERIOD tP^{i}

min $\{la^{-j}, lr^{-j}\}$ → USE PERIOD

→ TIME

PRODUCT i'

$tL^{i'}$ $tP^{i'}$

TIME LAG   PRODUCTION PERIOD

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